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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/942,396	08/30/2001	Sylvia Halasz	2000-0249	9706

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EXAMINER

FIELDS, COURTNEY D

ART UNIT

PAPER NUMBER

2137

DATE MAILED: 11/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/942,396

Applicant(s)

HALASZ ET AL.

Examiner

Courtney D. Fields

Art Unit

2137

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22 August 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-51 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-51 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-51 are pending.

Response to Arguments

1. Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection, Ricciulli (US Patent No. 6,816,910).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-51 are rejected under 35 U.S.C. 102(e) as being anticipated by Ricciulli (US Patent No. 6,816,910).

Referring to the rejection of claims 1, 13, 20, 23-24, and 31, Ricciulli discloses a method of protecting a host device from a disruptive event, comprising the steps of:

receiving a first request from a client for starting a first data connection (See Column 1, lines 32-38)

receiving a second request from the client for starting a second data connection (See Column 1, lines 38-45)

determining whether the first request and the second request have arrived at the

host device within a predetermined time interval, the predetermined time interval being based on a probability distribution function of the arrival times of previous requests for starting data connections received at the host device from a given originating location (See Column 5, lines 1-10)

and responsive to the step of determining, denying the second data connection to the client (See Column 5, lines 22-40)

Referring to the rejection of claims 2, 21, and 32, Ricciulli discloses the claimed limitation wherein the step of denying further comprises the step of preventing transmission of a synchronize message to the client (See Column 7, lines 16-23)

Referring to the rejection of claims 3 and 33, Ricciulli discloses the claimed limitation wherein the step of storing the first request from the client (See Column 5, lines 62-63)

Referring to the rejection of claims 4 and 34, Ricciulli discloses the claimed limitation wherein the step of storing an originating address of the client (See Column 5, lines 62-63)

Referring to the rejection of claims 5 and 35, Ricciulli discloses the claimed limitation wherein the step of calculating a difference value in the arrival times of the first request and second request at the host device for comparing the difference value to the predetermined time interval (See Column 5, lines 22-40)

Referring to the rejection of claims 6 and 36, Ricciulli discloses the claimed limitation wherein the step of transmitting a signal to a network control center for taking corrective action against the client (See Column 3, lines 44-58)

Referring to the rejection of claims 7,37, 41, and 49, Ricciulli discloses the claimed limitation wherein the step of barring the client access to the host device by downloading from the network control center appropriate commands to the server and appropriate commands to specific switching devices in the network (See Column 6, lines 1-7)

Referring to the rejection of claims 8,38,42,50, and 51 Ricciulli discloses the claimed limitation wherein the step of signaling the host device to shut down and the step of sending commands from the network control center to one or more standby servers to take over the processing functions performed by the host device that was shut down (See Column 4, lines 47-67)

Referring to the rejection of claims 9,22, 39, and 43 Ricciulli discloses the claimed limitation wherein the step of proceeding with establishment of the second data connection if the first request and the second request have arrived at the host device outside of the predetermined time interval (See Column 5, lines 22-40)

Referring to the rejection of claim 10, Ricciulli discloses the claimed limitation wherein the step of transmitting a synchronize message to the client (See Column 5, lines 1-18)

Referring to the rejection of claim 11, Ricciulli discloses the claimed limitation wherein the step of storing an originating address of the client and the arrival time of the second request (See Column 5, lines 62-67)

Referring to the rejection of claim 12, Ricciulli discloses the claimed limitation wherein the disruptive event is a flooding attack (See Column 1, lines 46-49)

Referring to the rejection of claims 14,25, and 45 Ricciulli discloses the claimed limitation wherein the step of denying the request comprises preventing transmission of a synchronizing message to the originating address (See Column 7, lines 16-23)

Referring to the rejection of claims 15,26, and 46 Ricciulli discloses the claimed limitation wherein the step of saving the originating address and the arrival time of the initializing request (See Column 6, lines 44-53)

Referring to the rejection of claims 16,27, and 47 Ricciulli discloses the claimed limitation wherein the step of denying the request further comprises closing a connection for the data transmission session (See Column 1, lines 49-64)

Referring to the rejection of claims 17,28, and 48 Ricciulli discloses the claimed limitation wherein the step of calculating a difference value in arrival times of the initializing request and the previously received initializing request from the originating address (See Column 5, lines 22-40)

Referring to the rejection of claims 18 and 29, Ricciulli discloses the claimed limitation wherein the step of transmitting a signal to a network control center responsive to the step of denying (See Column 6, lines 54-65)

Referring to the rejection of claims 19 and 30, Ricciulli discloses the claimed limitation wherein the step of monitoring a plurality of data packets arriving at the host device so as to generate a probability distribution of the arrival times of a plurality of initializing requests from the originating address (See Column 4, lines 27-46)

Referring to the rejection of claims 40 and 44, Ricciulli discloses a method of protecting a host device from a flooding event, comprising the steps of:

receiving a first request from a client for starting a first data connection

(See Column 1, lines 32-38)

receiving a second request from the client for starting a second data connection

(See Column 1, lines 38-45)

determining whether the first request and the second request have arrived at the host device within a predetermined time interval, the predetermined time interval being based on a probability distribution function of the arrival times of previous connection establishment requests received at the host device (See Column 5, lines 1-10)

and responsive to the step of determining, signaling a network control center

(See Column 3, lines 44-58)

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Glawitsch (US Patent No. 6,772,334) discloses a system and method for preventing denial of service attack in a networked computing environment.

Lamberton et al. (Pub No. 2001/0042200) discloses a method and system for defeating TCP SYN flooding attacks.

Watson et al. (US Patent No. 6,779,033) discloses a system and method for transacting a validated application session in a networked computing environment.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Courtney D. Fields whose telephone number is 571-272-3871. The examiner can normally be reached on Mon - Thurs. 6:00 - 4:00 pm; off every Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on 571-272-3865. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

cd
cdf

November 12, 2005

Matthew B. Smithers
MATTHEW SMITHERS
PRIMARY EXAMINER
Art Unit 2137